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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	EMCORE 3.0-069
	First Inventor	Alexander Gurary
	Title	REACTOR HAVING A MOVABLE SHUTTER
	Express Mail Label No.	EL804517375US

<b>APPLICATION ELEMENTS</b> <i>See MPEP chapter 600 concerning utility patent application contents</i>	<b>ADDRESS TO:</b> Box Patent Application Commissioner for Patents Washington, DC 20231
1 <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB 17) <i>(Submit an original and a duplicate for fee processing)</i> 2 <input type="checkbox"/> Applicant claims small entity status <i>See 37 CFR 1.27</i> 3 <input checked="" type="checkbox"/> Specification [Total Pages: 2] <i>preferred arrangement set forth below:</i> - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing in a table - Computer program listing appendix - Background of the invention - Brief Summary of the invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4 <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets: 4] 5 Oath or Declaration [Total Pages: ] a <input type="checkbox"/> Newly executed (original or copy) b <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>for continuation divisions with Box 16 completed</i> DELETION OF INVENTOR(S) Signed statement attached setting inventor(s) named in the prior application see 37 CFR 1.63(d)(2) and 1.33(c) 6 <input type="checkbox"/> Application Data Sheet See 37 CFR 1.76	7 <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8 <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> a <input type="checkbox"/> Computer Readable Form (CRF) b <input type="checkbox"/> Specification Sequence Listing on CD-ROM or CD-R (2 copies), or <input type="checkbox"/> paper c <input type="checkbox"/> Statements verifying identity of above copies <b>ACCOMPANYING APPLICATIONS PARTS</b> 9 <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10 <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of <i>(when there is an assignee)</i> Attorney 11 <input type="checkbox"/> English Translation Document (if applicable) 12 <input checked="" type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations 13 <input type="checkbox"/> Preliminary Amendment 14 <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>Should be specifically itemized:</i> 15 <input type="checkbox"/> Certified Copy of Priority Document(s) <i>if foreign priority is claimed</i> 16 <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB 35 or its equivalent 17 <input checked="" type="checkbox"/> Other Unexecuted Declaration

18 If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. \_\_\_\_\_  
 Prior application information: Examiner \_\_\_\_\_ Group / Art Unit \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

<b>19. CORRESPONDENCE ADDRESS</b>			
<input checked="" type="checkbox"/> Customer Number or Bar Code Label	 000530	<input type="checkbox"/> Correspondence address below	
Name _____			
Address _____			
City _____	State _____	Zip Code _____	
Country _____	Telephone _____	Fax _____	

Name (Print Type)	Michael J. Doherty	Registration No. (Attorney/Agent)	40,592
Signature	<i>Michael J. Doherty</i>	Date	January 16, 2002

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<h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">for FY 2002</h3> <p style="margin: 0; font-size: small;">Patent fees are subject to annual revision.</p>		<b>Complete if Known</b>			
<input type="checkbox"/> Application claims small entity status. See 37 CFR 1.27		Application Number		Not Yet Assigned	
		Filing Date			
		First Named Inventor		Alexander Gurary	
		Examiner Name		Not Yet Assigned	
		Group Art Unit		N/A	
TOTAL AMOUNT OF PAYMENT		(\$)	956.00	Attorney Docket No.	EMCORE 30-069

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)																																																																																																																																																																																														
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account Deposit Account Number: <span style="border: 1px solid black; padding: 2px;">12-1095</span> Deposit Account Name: <span style="border: 1px solid black; padding: 2px;">Lerner, David, Littenberg, Krumholz &amp; Mentlik, LLP</span> The Commissioner is hereby authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	<h3>3. ADDITIONAL FEES</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>150</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for ex parte reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIP prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,340*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>410</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>620</td><td>217</td><td>400</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>750</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,950</td><td>228</td><td>900</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>230</td><td>221</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>38</td><td>1,110</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>450</td><td>243</td><td>210</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>110</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>100</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>58*</td><td>40</td><td>58*</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>140</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr> <td colspan="4">Other fee (specify):</td> <td></td> <td></td> </tr> <tr> <td colspan="4">           SUBTOTAL (1) (\$): 740.00         </td> <td colspan="2">           SUBTOTAL (3) (\$): 0.00         </td> </tr> </tbody> </table>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	105	150	205	65	Surcharge - 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